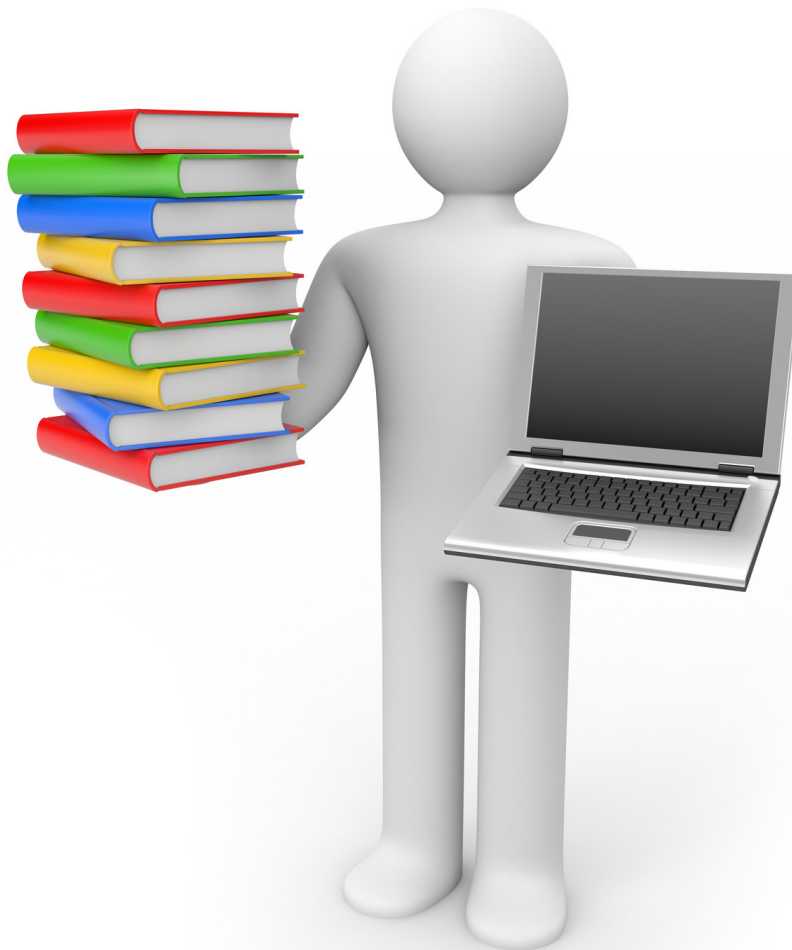


The D11 Learning with Technology Vision



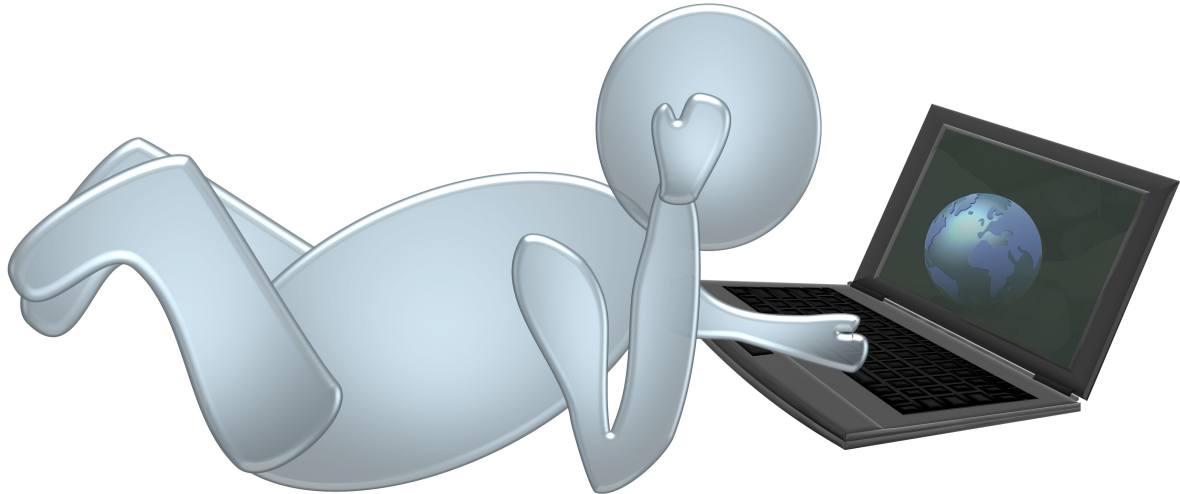
Gregory and Denby Associates



Prepared by
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Associates
March 2011

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Introduction

This document has been prepared by Gregory and Denby Associates following a number of meetings with District 11. The change in use of technology to enhance the learning experience for every individual can only be achieved through an evolutionary transformation. The start of this transformation is the development of a vision. The vision is designed to define how technology will support, enhance and drive forward learning.

This document provides a five year 'vision' and forms a basis for the strategic planning of the use of technology to promote 21st century learning. The structure applied covers four main parts.

Part One is the areas of focus. These have significant overlap as each one is not designed to stand in isolation. Areas are:

- Learning
- Teaching
- Administration and Management
- Professional Development
- Wider Community

Part Two is the overall educational vision for District 11. This comprises a number of broad statements contained within the areas listed above. The purpose of this section is to look at the learning aims irrespective of the use of technology. Statements in this section have been selected after significant discussion with the District 11 team and are drawn from a number of sources including the ISTE NETS, <http://www.iste.org/standards.aspx> PLTS (Personalized Learning and Thinking Skills framework), <http://curriculum.qcda.gov.uk/> and the general aims of districts and schools wishing to provide a true 21st century learning experience for their students.

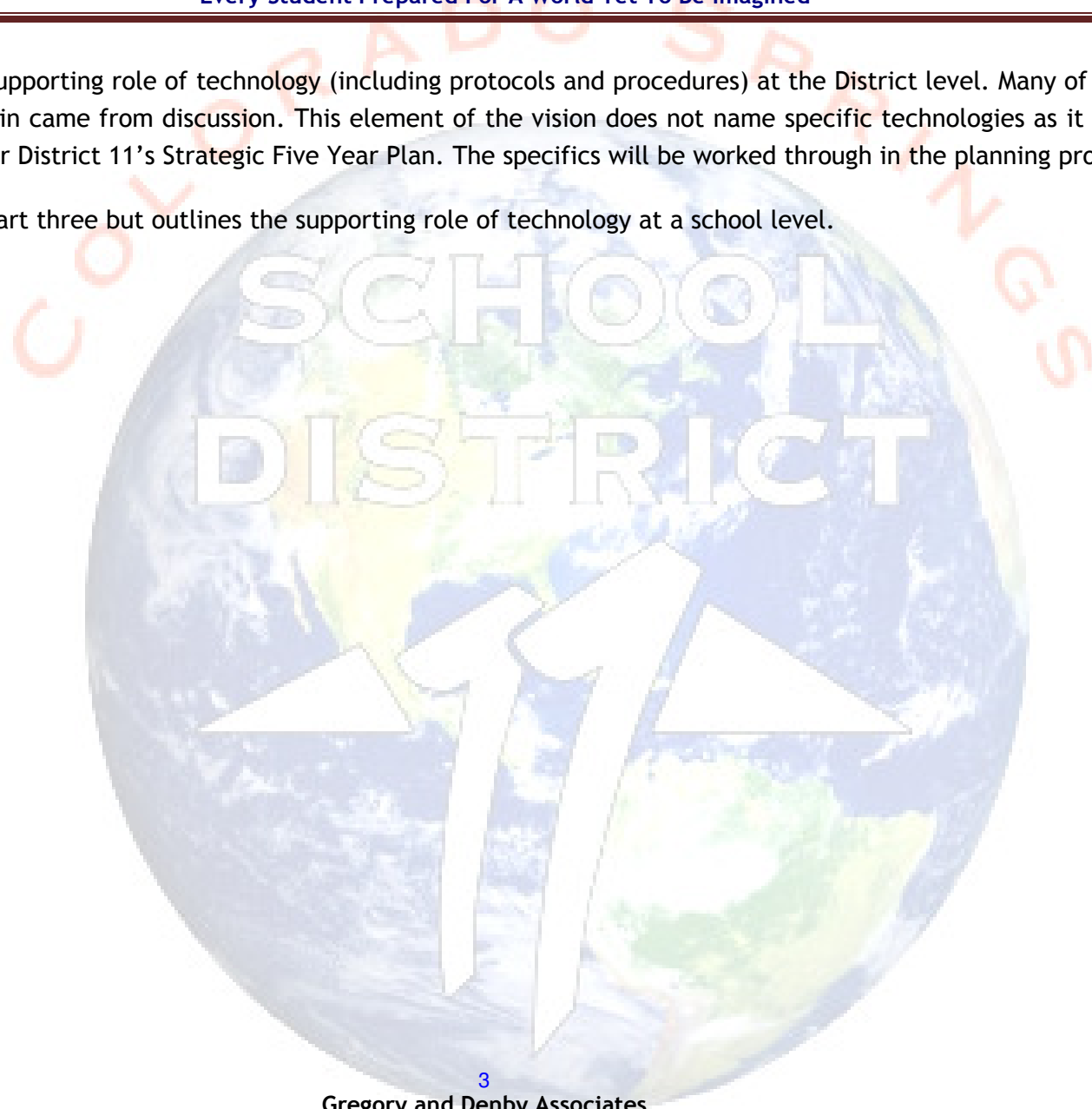


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Part Three covers the supporting role of technology (including protocols and procedures) at the District level. Many of the thoughts and ideas in this section again came from discussion. This element of the vision does not name specific technologies as it is designed to be the stepping off point for District 11's Strategic Five Year Plan. The specifics will be worked through in the planning process.

Part Four is similar to part three but outlines the supporting role of technology at a school level.



Technology for Learning

At the heart of the District's Vision is the desire to provide all learners with universal access to education through technology, wherever and whenever they choose. The provision of a personalized experience for each individual will drive students' motivation to learn. They will have the opportunity to work individually, in groups, or as a whole class, locally, nationally and internationally.

Access to technology resources will be far broader than classrooms; the entire District will maximize opportunities for promoting learning and engaging students in exciting and innovative ways. Schools' social areas and the external environments will utilize technology through interactive displays, challenges, streaming information and celebrations of achievement that enhance the academic culture of the District.

The development of a learning platform will allow the learning environment to extend beyond school buildings and traditional opening hours. It will give access to resources, individualized plans, targets, communication tools and achievements for all learners. Online access to schemes of work will allow our learners to plan and think ahead, seeing the progression and connectedness of their learning.

Our digital learning environment will allow learners to engage and collaborate with a wide variety of mentors from global industry and education. This collaboration will enhance the quality of resources available and provide an 'on demand' approach that helps build personalized learning pathways.

There will be no single mode of learning throughout District 11; technology will provide flexibility to meet the needs of learners working in different ways. This will be supported by an imaginative approach to school usage, providing a variety of physical learning environments.

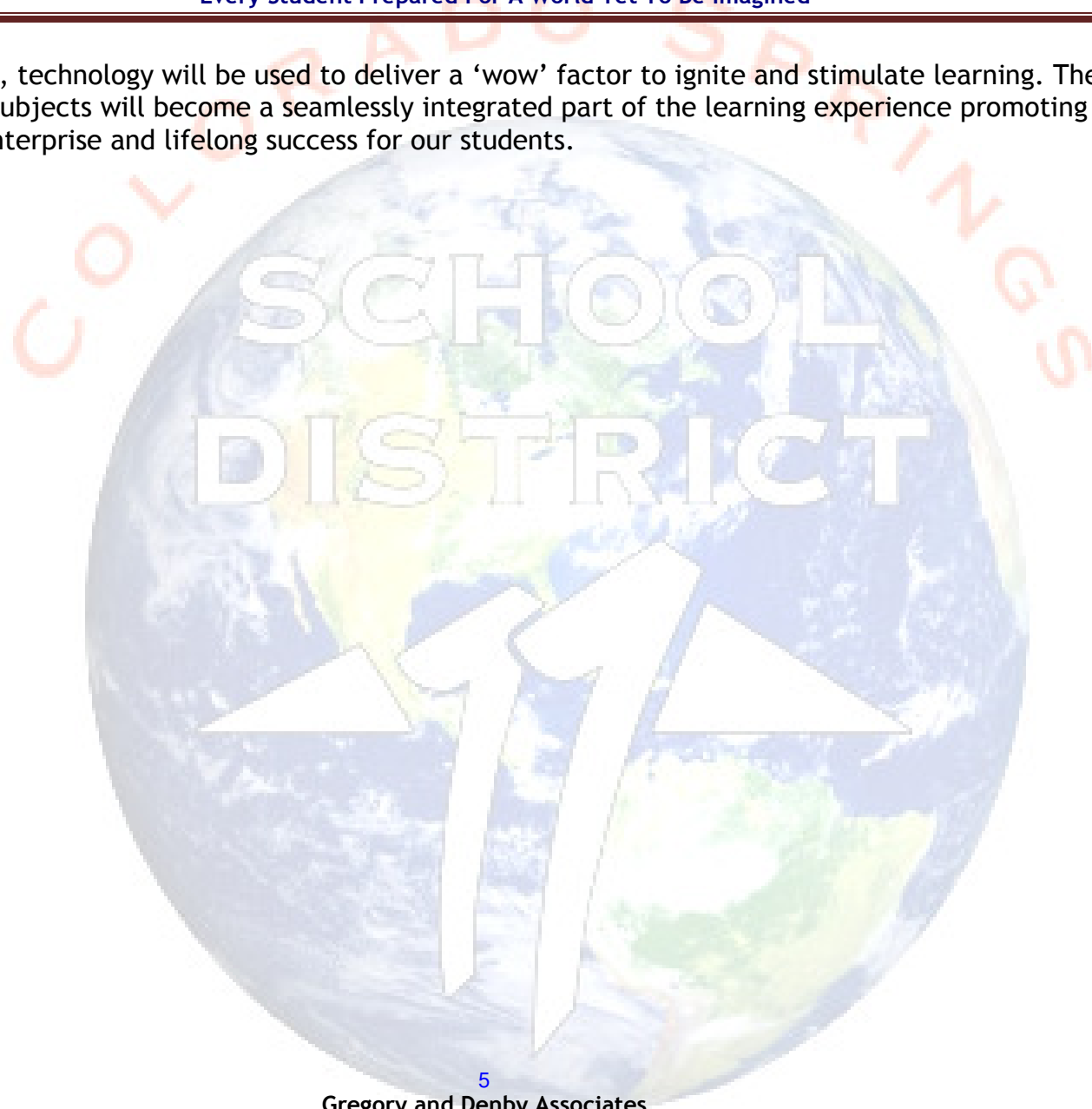
A combination of fixed and mobile technologies throughout our schools will be necessary to support this vision but possibly the biggest challenge will be providing access at home in terms of both device and connectivity.



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Throughout District 11, technology will be used to deliver a 'wow' factor to ignite and stimulate learning. The use of technology across all subjects will become a seamlessly integrated part of the learning experience promoting independent working, creativity, enterprise and lifelong success for our students.



Key Area Learning	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
Technology for Learning	Our learners will have access to all appropriate resources, not limited by time or location.	<ul style="list-style-type: none"> ▪ Learning platform with curriculum content available from any location with internet connectivity. ▪ District wide wireless connectivity with appropriate filtering. 	<ul style="list-style-type: none"> ▪ Learners will have immediate access to resources available through technology. This access will be facilitated by a combination of fixed devices in specialized areas and a variety of mobile devices on a true 1:1 basis. ▪ Full, robust, secure wireless coverage with appropriate filtering allowing anytime access.



Key Area Learning	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
	Our learners will have a wide choice of routes through their education to encompass different learning styles, approaches and abilities, effectively personalizing learning.	<ul style="list-style-type: none"> Learning platform will contain a variety of resources (content and type) for each subject area allowing learners to choose those most appropriate for their learning. 	<ul style="list-style-type: none"> Recording technologies will provide learners with lessons 'on demand' coupled with extension, support and enrichment activities. Specialized technologies will provide tools for specific curriculum areas e.g. tablet/slates in art, shadow software in P.E. Dance mats, Wii or similar gesture/interactive technologies will help boost students' interaction with learning.



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Key Area Learning	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
	Our learners are involved in 'real world' projects that help develop collaboration, critical thinking and creativity.	<ul style="list-style-type: none"> Standardized, supported digital collaborative tools. 	<ul style="list-style-type: none"> Conferencing tools for direct communication with industry mentors. Project management tools. Critical thinking tools.
	We value the contribution of our young people to the development of their learning.	<ul style="list-style-type: none"> Learning platform provides 'student voice' area that is regularly reviewed and integrated into our development plan (district level). 	<ul style="list-style-type: none"> Learning platform provides 'student voice' area that is regularly reviewed and integrated into our development plan (school level).



Key Area Learning	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
	Our learners will proactively determine their processes and methods with the ability to select tools based on their appropriateness to specific tasks.	<ul style="list-style-type: none"> After hours access to school facilities (extension of the learning day and restructure of the academic year) will enable flexible learning through wireless mobile and fixed devices. 	<ul style="list-style-type: none"> Our learners have full access to a variety of digital learning tools; this includes a range of software and peripheral devices such as digital cameras, video cameras, tablets, podcasting equipment, augmented reality, broadcasting technology, etc. Learning spaces will be equipped to provide technology for different purposes e.g. green screen, video conferencing, science simulation labs.



Key Area Learning	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
	Our learning environment will be inclusive to all.	<ul style="list-style-type: none"> Learning platform will provide access to all lessons regardless of location, reducing the need for physical access. 	<ul style="list-style-type: none"> All learners are able to participate in lessons as individuals using technologies that support special needs, e.g., sound field systems and visually enhanced screen technology to cater for those with visual and/or auditory impairments. Learners with more specialized needs will be provided with specific devices as required to allow full access.



Key Area Learning	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
	We use assessment to enhance learning, utilizing assessment from: self, peer, teachers, parents and mentors	<ul style="list-style-type: none"> ▪ Development of a skills ladder outlining expectations of a child's ability to learn with technology. ▪ Access to and continuous use of assessment for pupils, parents, teachers and mentors through the learning platform. ▪ Development of a peer review structure as part of a collaborative environment. ▪ 'Beyond graduation' monitoring. 	<ul style="list-style-type: none"> ▪ Multimedia file attachments to students work for assessment and feedback where appropriate. ▪ School level online peer review structure. ▪ Video conferencing and Web 2.0 tools to link learners in different locations.



Key Area Learning	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
	Our learners work collaboratively to support individual learning and contribute to the learning of others.	<ul style="list-style-type: none"> Standardized, supported digital collaborative tools. District led collaboration with industry. 	<ul style="list-style-type: none"> Video conferencing, instant messaging and screen share. Supported digital access to collaborative work with industry, other cultures and diverse learning communities.
	All are learners.	<ul style="list-style-type: none"> The whole D11 community has access to technology learning tools, training and development resources (including individual expertise) through the learning 	<ul style="list-style-type: none"> School facilitated learning through technology for localized school community.



Key Area Learning	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
		platform, building technology access and district wide internet access.	
	Learning is not just within our school buildings, but takes place in a range of locations across D11.	<ul style="list-style-type: none"> Learning platform provides connection to personalized lessons from any location. Specialized technology resources are available to all learners at specific locations. 	<ul style="list-style-type: none"> Video conferencing facilities will allow access to learning delivered at other D11 locations or potentially on a national/global basis.



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Key Area Learning	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
	Our learning day is flexible in terms of time and space encouraging our students to manage their own learning through a personalized curriculum.	<ul style="list-style-type: none"> Learning platform provides District wide: Electronic scheduling, Electronic room booking, and Electronic resource booking. District wide, digital personalized learning support. 	<ul style="list-style-type: none"> 1:1 student and teacher devices. Project management software.



Technology for Teaching

The District recognizes that face-to-face interaction with learners can never be replaced; however there is a desire to develop the use of technology to support the move to a more learner led model of education. The evolution of this type of curriculum will see the need for a technology solution that can support the delivery of video content and digital resources to large groups as part of a blended learning model while also providing the flexibility for learners to move seamlessly into smaller groups for peer working, still supported by technology.

Although the move to this style of learning will see less emphasis placed on traditional methods of instruction, it is essential that teachers are able to model activities and demonstrate skills to groups of students. This will involve the use of various interactive display technologies that use multimedia to create stimulating engaging learning situations.

All staff will be able to access shared resources, indexed and cataloged by keywords. In addition, the functionality of the learning platform will allow staff to monitor student progress and attainment, assess work and initiate online debates and polls while also setting and receiving tasks as part of a personalized learning plan for each individual learner.

Access to web-based internal information, such as whole school events, policies and procedures, as well as on-line and pre-prepared digital learning resources and schemes of work, will help our teachers to make effective use of their time, allowing more time for one to one coaching/mentoring opportunities.

Each member of staff will have access to technology via their individual laptops/desktops and mobile devices. Within each learning space will be a variety of technologies that enable teachers to deliver lessons to varying group sizes within our school building while broadcasting to other areas around District 11. Recording technology will allow live lessons to be captured forming an on-demand resource for all learners. This approach will also develop exemplar lessons for the sharing of expertise and training purposes.



Key Area Teaching	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
Technology for Teaching	Our teachers are innovative professionals providing learning for students, peers, parents, and local and global community members.	<ul style="list-style-type: none"> Learning platform contains all resources with access provided at appropriate levels to our learning community. Access to in-class video when required to support learning across the District 11 with an on-demand approach. District 11 branded online learning. 	<ul style="list-style-type: none"> Access to in-class video when required to support learning across the District 11 with an on-demand approach.



Key Area Teaching	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
	Our teachers personalize the learning experience through a wide range of physical and virtual resources for classroom delivery.	<ul style="list-style-type: none"> All teachers have access to high quality multimedia content contained on the learning platform, accessible from wherever they are teaching, through 'live' lesson plans. 	<ul style="list-style-type: none"> All our teachers have a teacher tool-kit which includes interactive display and sound technology in all learning areas. All teachers have access to 21st century learning enhancing technologies e.g., animation, podcasting software, video editing, Web 2.0 tools, augmented reality. All teachers have a mobile device allowing anywhere anytime access to enable flexible working.



Key Area Teaching	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
	<p>We provide a continuous, engaging learning experience that supports 21st century learning goals.</p>	<ul style="list-style-type: none"> ▪ Learning platform provides lesson continuation resources that learners automatically access when outside of direct classroom hours. ▪ All staff plan electronically with a standardized planning guide containing embedded resources available across our learning community through the learning platform. Long term planning has a standardized structure and is managed electronically. 	<ul style="list-style-type: none"> ▪ The Lead Educators Group (see page 17 below) will develop and advance the use of technology and cascade to staff. ▪ Online resources are developed by the most appropriate members of the learning community.



Key Area Teaching	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
	Our teachers share best practices.	<ul style="list-style-type: none"> ▪ The Lead Educators Group will develop and advance learning with technology and cascade to staff. ▪ District level coordinated approach to all technology trials, resource development, training and professional development. 	<ul style="list-style-type: none"> ▪ Lead Educators provide : <ul style="list-style-type: none"> ▪ Demo lessons (live and recorded) ▪ Online resources ▪ 'Live' lesson plans ▪ Online tutorials ▪ Device and application reviews



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Key Area Teaching	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
	All our teachers have uniform access and availability of resources.	<ul style="list-style-type: none"> Standardized teacher toolkit. Cross district internet access (year one to provide access for personal devices in all D11 buildings). 	<ul style="list-style-type: none"> Uniformity of technology for all teachers, devices and applications with variation for specific curriculum requirements.



Technology for Administration and Management

Administration across the District will be a significantly more efficient process through the full integration of curriculum and administration systems. Data will be entered once and this will be shared across registration, curriculum, library, access control, positive behavior management and cashless solutions. A single smart ID system will be used to manage, and allow the use of all these facilities through a single sign on. The integrated and convergent nature of the technology systems in District 11 will make it an extremely data-rich organization - we will know how much time students spend at school, learning in other locations, what they eat, what their behavior is like, what resources they use, their assessment and grade information and even their progress and achievement beyond graduation. This will provide opportunity for central diagnosis and predictive analysis by management and leadership teams.

The combined functionality of the learning platform and our student information system will ensure that core administrative and financial systems are run efficiently and effectively, alongside school systems for management and reporting functions, such as timetable construction and resource management.

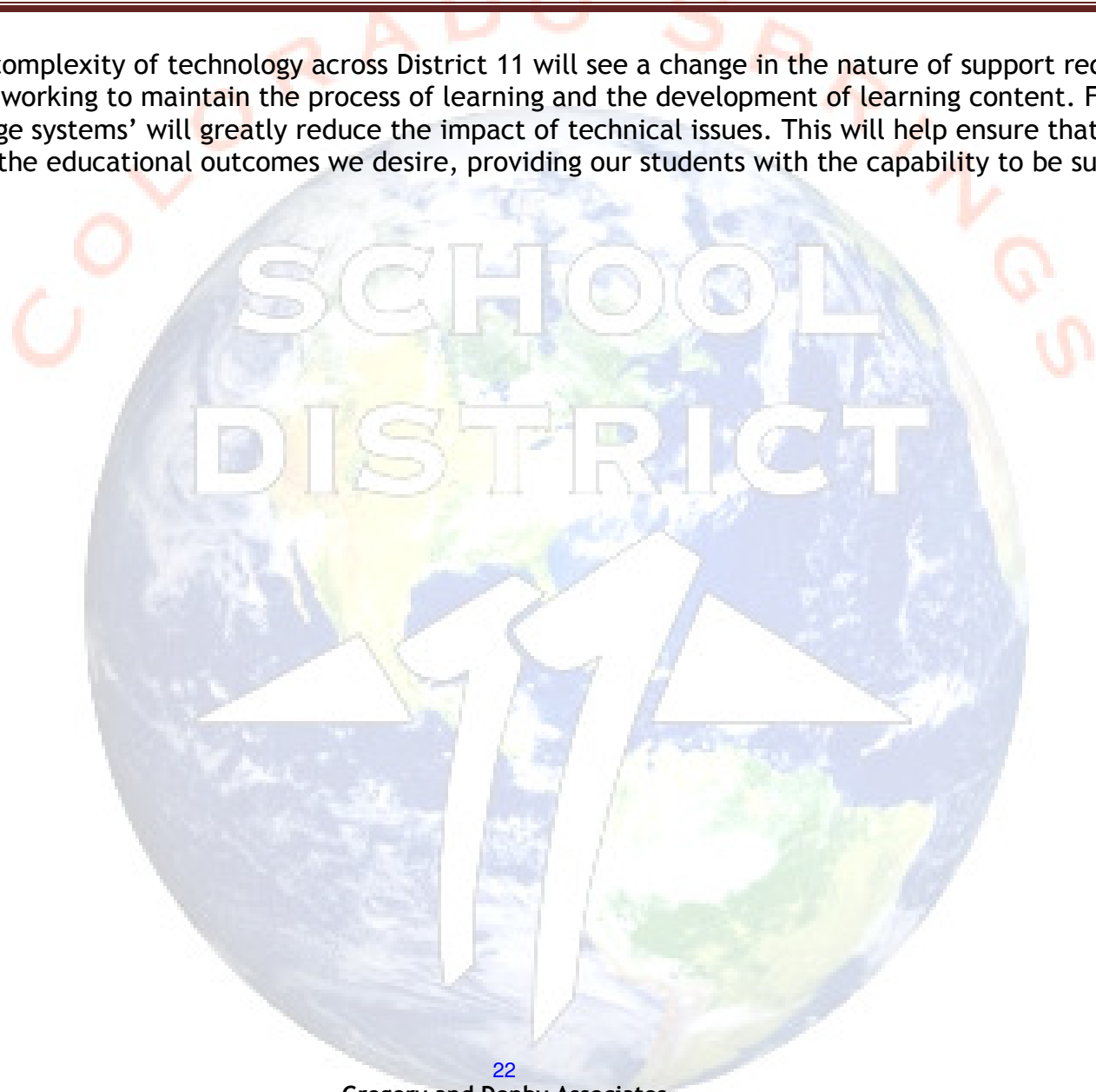
On-line communication is an essential part of the vision to allow the effective flow of information between staff, students and their parents. It will provide improvement both in terms of content and speed. Our use of communication technology gives greater flexibility for learners, providing them with access to educators that would not previously have been possible. District buildings will utilize access control to ensure the safety of students, enabling the use of resources while limiting access to sensitive areas. Zone control systems will allow all learners to utilize the District's resources beyond the standard school day and standard school year, giving a far greater return on our investment.

Digital solutions utilizing smart IDs will streamline processes allowing staff to concentrate on the learner rather than administrative procedures. With an increasingly mobile learner through flexibility in timetabling this approach will reduce the burden on staff of tracking student location and attendance monitoring. These systems will be capable of automatically contacting parents via a variety of digital methods.

The deployment of a district wide smart communication system will provide a total communication solution that links email, voice and text based communications into a single interface. This will enable a more flexible working environment that gives our teachers and learners great choice in terms of time, location and method.



The increase in the complexity of technology across District 11 will see a change in the nature of support required with a greater emphasis on working to maintain the process of learning and the development of learning content. Focused on-site support and 'exchange systems' will greatly reduce the impact of technical issues. This will help ensure that our drive to use technology is led by the educational outcomes we desire, providing our students with the capability to be successful at the highest level.



Key Area A and M	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
Technology for Administration and Management	Our reporting is robust and inclusive.	<ul style="list-style-type: none"> Learning platform will gather all relevant learner information for access at appropriate levels by teachers, mentors, parents and students. 	<ul style="list-style-type: none"> Controlled online reporting to parents of all appropriate aspects of school life on an ongoing regular (possibly daily, weekly, monthly) basis to ensure that parent consultation evenings are focused on looking forward rather than review.
	Our communication is quick, effective and easily managed	<ul style="list-style-type: none"> Electronic communication (including email, instant messaging text and social networking) with all groups 	<ul style="list-style-type: none"> Social networking sites and Twitter type sites will be used to give general class and school activity updates.



Key Area A and M	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
	enabling a greater flexibility in terms of learning times and places.	with appropriate District level protocols and technical support to ensure effective usage.	<ul style="list-style-type: none"> Staff mobile devices enhance organization and communication enabling easy organization of personalized learning. Digital signage in school communal areas including gesture screens and interactive floor/wall projection where appropriate.
	Information and resources are available across our learning community.	<ul style="list-style-type: none"> Learning platform provides real time District information regarding events and schedules. Biometrics (fingerprint recognition 	<ul style="list-style-type: none"> Learning platform provides real time school information regarding events and schedules.



Key Area A and M	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
		or similar) single sign on to all appropriate D11 systems.	
	Our learners are encouraged to participate positively through immediate feedback.	<ul style="list-style-type: none"> District to ensure standardization and support of school level systems. 	<ul style="list-style-type: none"> Biometrics (fingerprint recognition or similar) log positive behavior and giving instant feedback. Interactive screens provide student challenges.
	Our assessment system encourages innovative learning processes and enables progression and	<ul style="list-style-type: none"> Ongoing digital formative and summative assessment allowing input from multiple sources. Electronic portfolios (ICAP) for all 	<ul style="list-style-type: none"> Ongoing digital formative and summative assessment allowing input from multiple sources. Electronic portfolios (ICAP) for all



Key Area A and M	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
	achievement irrespective of grade level.	learners, public and private versions, input by students and teachers. Available through learning platform and accessible 'beyond graduation'.	learners, public and private versions, input by students and teachers. Available through learning platform and accessible 'beyond graduation'.
	We employ systems that help protect our local and global environment.	<ul style="list-style-type: none"> Papersmart environment reduces paper usage to a minimum requirement through the smart use of electronic alternatives e.g., online storage for all admin docs. 	<ul style="list-style-type: none"> Papersmart environment reduces paper usage to a minimum requirement through the smart use of electronic alternatives e.g., online storage for all admin docs.



Technology for Professional Development

Professional development across the District will be a key element in transforming education. Technology will play a critical role in enabling the District's teachers to develop a personalized approach to their development. As we promote a personalized approach to our students' education we will create a system that delivers the same for our teachers. At the center of which will be integrated self-appraisal. This will enable teachers to assess their skills online and then link directly through to interactive training and development resources that can be accessed anywhere anytime, as often as needed. Our professional development system will provide the most effective resources from the highest quality providers. Many of these providers will be District 11 educators whose work is nationally recognized under the D11 Professional Development brand. To ensure our educators have the ultimate in personalized professional development, we guarantee a minimum of 5% of their contracted time is spent on furthering their own skills and competencies.

The District will develop a Lead Educator Group that will continuously investigate and promote the integration of the best educational technologies into our classrooms. The areas chosen for development through leading educators will be informed by the needs of the District and individual school's planning. The Leading Educator Group will be instrumental in the development of exemplar lessons, demonstration classrooms and ultimately demonstration schools which will be specific to leveled tiers ensuring appropriate differentiation.

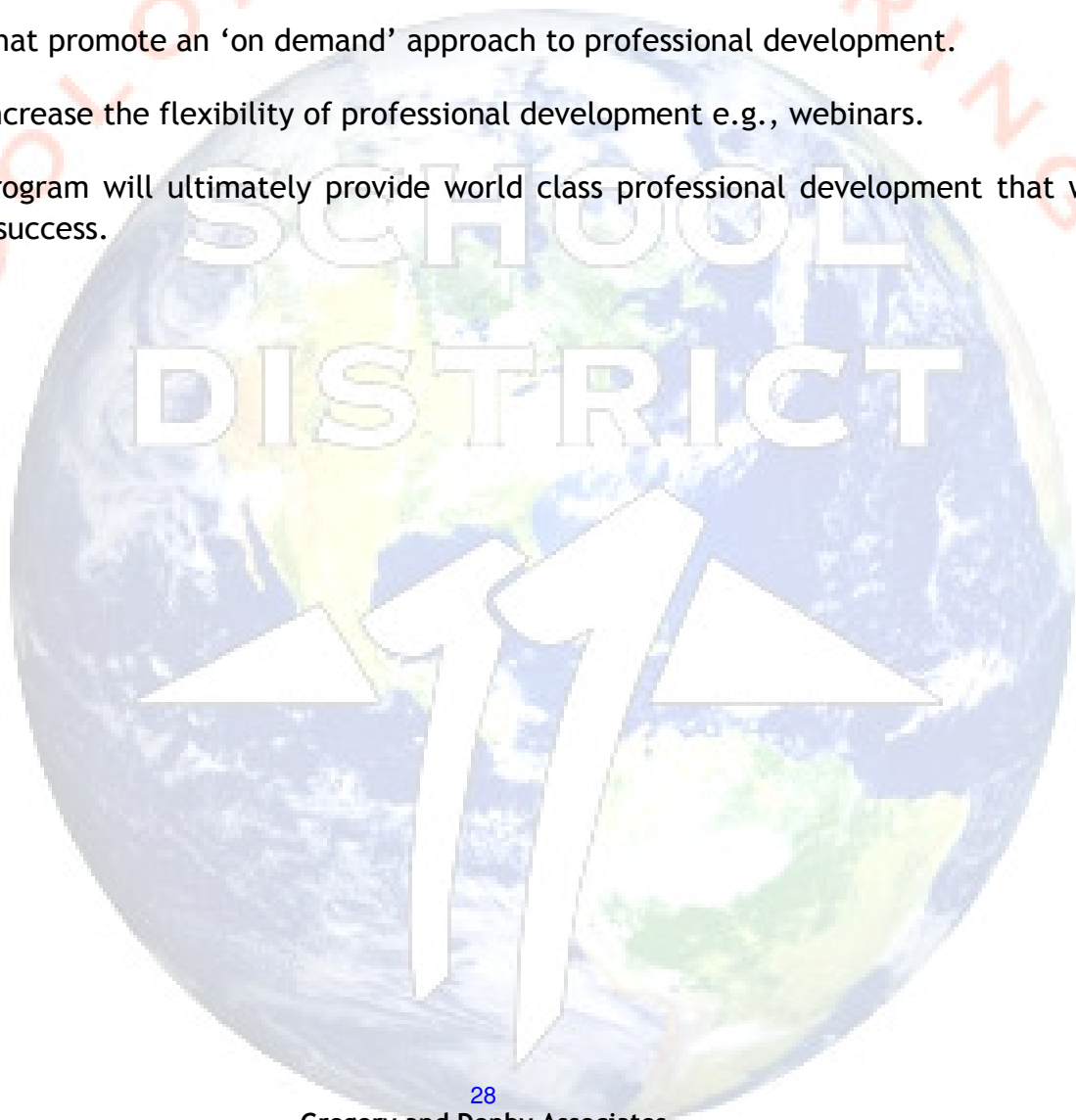
The Leading Educator Group will:

- Explore new and existing technologies.
- Share research.
- Develop learning resources around their area of expertise.
- Deliver exemplar lessons that can be viewed by other teachers (live and/or recorded).



- Produce and/or find guidance notes (podcasts, video etc.) in their area of expertise.
- Develop resources that promote an 'on demand' approach to professional development.
- Use technology to increase the flexibility of professional development e.g., webinars.

The D11 Lead Educator Program will ultimately provide world class professional development that will play a key role in preparing our learners for success.



Key Area P.D.	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
Technology for Professional Development	We provide personal development opportunities, systems and access for all learners in our community.	<ul style="list-style-type: none"> Online professional development at basic, intermediate and advanced levels. Baseline skill level established through online audit available to all. Baseline expectations supported by online training materials. Development of Lead Educator Group to build and disseminate 	<ul style="list-style-type: none"> Online menu option provides categorized professional development opportunities to allow teachers to build their own personalized development plan that encompasses District, school and personal goals. Learning platform will contain development resources including podcasts, video, screen capture, etc. Online guides developed for different stakeholders, e.g., guide for new students, substitute teachers, new staff. Video tours



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Key Area P.D.	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
		<p>good practice through innovative technologies across the District.</p> <ul style="list-style-type: none"> Guaranteed 5% professional development time for all educators. 	<p>where appropriate.</p> <ul style="list-style-type: none"> Online District 11 professional development brand.



Technology for the Wider Community

District 11 schools will be key technology-rich 'hubs' in the local community, inspiring local users and allowing the District to offer lifelong learning opportunities, facilities and services to, among others, small local businesses, adult learners and home-schooled students who otherwise may not have access to such high quality resources or support. Access to some of these resources will be virtual as well as physical, through the learning platform and the creation of on-line learning materials. Engagement with parents occur through a variety of methods; access to the learning platform will allow them to monitor all aspects of their children's learning experiences and gain notification about forthcoming events, courses and other information.

The District's facilities will all be of a professional standard and available for conferences and exhibitions, as well as for resident's meetings, local clubs and business events. The high concentration and specification of our technology facilities will provide outstanding resources for all learners within the D11 community.

The District will forge very close links with local industry to develop a broad collaborative model that ensures the skills of our learners meet the needs of employers. Local industry will provide assistance to our learners through online mentoring, guidance and assessment programs to help ensure their projects have a 'real world' focus. Administrators will have the opportunity to work closely with industry leaders in a two way mentoring program that will focus on the technologies, skills and working practices of the respective participants.

Collaboration with other districts through virtual tours, lessons, support for specialized projects and mentoring programs will exemplify District 11 as a national educational leader.



Key Area Wider Community	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
Technology for the Wider Community	We ensure the wider community is part of the District's development.	<ul style="list-style-type: none"> Information shared through learning platform. Feedback encouraged through learning platform, email, instant messaging, etc. 	<ul style="list-style-type: none"> Information shared through learning platform. Feedback encouraged through learning platform, email, instant messaging, etc.



Key Area	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
Wider Community	We provide resources for our local community to enable access to 21st century tools.	<ul style="list-style-type: none"> Extended hours technology access. District wide wireless connectivity. 	<ul style="list-style-type: none"> Provision of courses, training and development to the wider community when appropriate. Personal use tech courses to provide local community with the capability to use technology for their own needs, e.g. ELL courses, email, Skype, Ebay, Monster, etc.



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Key Area Wider Community	District 11 Education Vision	Technology Support for the Vision	
		District Level	School Level
	We support our educational community.	<ul style="list-style-type: none"> Guidance given to other districts on the “District 11 experience.” Website set up with an overview, FAQs, contact info, professional development structure, etc. 	

